

CLAIMS

1. A mixing tube for use in a high-pressure fluid jet system, comprising:
a mixing tube body having a bore extending therethrough along a longitudinal axis, and a collar rigidly fixed to an outer surface of the mixing tube in an upper region of the mixing tube, the collar being sized to slide upward through a bore of a cutting head and locate the mixing tube longitudinally in a desired location.
2. The mixing tube according to claim 1 wherein a distance from a top surface of the mixing tube body to a bottom surface of the collar is 0.02 – 2.0 inch.
3. The mixing tube according to claim 1 wherein a wall thickness of the collar is 0.01 - 0.2 inch.
4. The mixing tube according to claim 1 wherein an outer surface of the collar is substantially cylindrical.
5. The mixing tube according to claim 1 wherein an outer surface of the collar is substantially frusto-conical.
6. The mixing tube according to claim 1 wherein the collar is surrounded by a nut, an outer surface of the nut being threaded to engage a threaded inner surface of a cutting head.
7. A mixing tube for use in a high-pressure fluid jet system, comprising:
a mixing tube body having a longitudinal bore extending therethrough defining an inlet to the mixing tube and an outlet, a first cylindrical region of the mixing tube body adjacent the inlet having a first outer diameter that is less than a second outer diameter of the mixing tube body downstream of the first cylindrical region.